

CONTENTS OF VOLUME 5, 1990

Number 1

Editorial

i

Robert W. Massof, Gislin Dagnelle,
Terry Benzschawel, Rosalind W. Palmer
and Daniel Finkelstein

- 1 First order dynamics of visual field loss in retinitis pigmentosa

Noreen Denny, Thomas E. Frumkes
and Stuart H. Goldberg

- 27 Comparison of summatory and suppressive rod-cone interaction

Susan J. Leat and Michel Millodot

- 37 Contrast discrimination in normal and impaired human vision

William R. Bobier

- 45 Eccentric photorefraction: a method to measure accommodation of highly hypermetropic infants

Richard N. Aslin, Sandra L. Shea
and Henry S. Metz

- 61 Use of the Canon R-1 autorefractor to measure refractive errors and accommodative responses in infants

Steve Suter, Penelope S. Suter
and Jess F. Deegan II

- 71 Steady-state VEP phase stability and acuity in adults and infants

Research Reports

Donnell J. Creel, John W. Conlee
and Richard A. King

- 81 Dark adaptation in human albinos

J. E. Calvert, J. P. Harris and O. T. Phillipson

- 87 Effects of L-dopa on the tilt aftereffect with differing stimulus contrast and test duration

Technical Note

Gislin Dagnelle

- 95 Conversion of planimetric visual field data into solid angles and retinal areas

Number 2

M. V. Joesse, J. R. Wilson and R. G. Boothe

- 101 Monocular visual fields of macaque monkeys with naturally occurring strabismus

Karlene Ball, Cynthia Owsley and
Bettina Beard

- 113 Clinical visual perimetry underestimates peripheral field problems in older adults

Sven Jarkman and Sven Erik G. Nilsson

- 127 Effects of isoproterenol on the d.c. electroretinogram and on the standing potential of the albino rabbit eye

W. Heide, T. P. Blossfeldt, E. Koenig and
J. Dichgans

- 133 Optokinetic nystagmus, self-motion sensation and their aftereffects in patients with long-lasting peripheral visual field defects

W. Heide, E. Koenig and J. Dichgans

- 145 Optokinetic nystagmus, self-motion sensation and their aftereffects in patients with occipito-parietal lesions

B. Winn and G. Heron

- 157 The temporal accommodation response in amblyopia

D. J. Heersema and J. Van Hof-Van Duin

- 167 Age norms for visual acuity in toddlers using the acuity card procedure

Case Report

Jane C. Boulton and Kathy T. Mullen

- 175 A case in which colour vision is no longer motion blind

Research Reports

J. Zihl and G. Kerkhoff

- 185 Foveal photopic and scotopic adaptation in patients with brain damage

David A. Goss and Paul Erickson

- 197 Effects of changes in anterior chamber depth on refractive error of the human eye

Number 3

- R. F. Hess, J. Zihl, J. S. Pointer and Ch. Schmid 203 The contrast sensitivity deficit in cases with cerebral lesions
- D. M. Sharp, G. B. Arden, C. M. Kemp, C. R. Hogg and A. C. Bird 217 Mechanisms and sites of loss of scotopic sensitivity: a clinical analysis of congenital stationary night blindness
- Terri L. Lewis, Daphne Maurer and Henry P. Brent 231 The development of visual resolution in infants and toddlers tested monocularly with optokinetic nystagmus
- Samuel Sokol, Anne Moskowitz, David Reese and Barbara Brown 243 Low contrast letter acuity in childhood amblyopia
- J. Lovie-Kitchin, J. Mainstone, J. Robinson and B. Brown 249 What areas of the visual field are important for mobility in low vision patients?
- John A. Baro and Stephen Lehmkuhle 265 The effects of a luminance-modulated background on human grating-evoked cortical potentials
- Raquel Beneish, Pierre Lachapelle, Robert C. Polomeno and Norma Lake 271 Pattern VEP differences in strabismic and anisometropic amblyopia
- William W. Dawson, Robert J. Ulshafer, Ronald Parmer and Nancy R. Lee 285 Receptor potentials in the normal and retinal degenerate (rd) chick
- Research Reports*
- Donald C. Hood and David G. Birch 293 The relationship between models of receptor activity and the *a*-wave of the human ERG
- Irene Gottlob and Karin Strenn 299 Effect of levodopa on the human electrooculogram

Number 4

- Birgit Katz and Ruxandra Sireteanu 307 The Teller acuity card test: a useful method for the clinical routine?
- Cynthia Owsley, Michael E. Sloane, Harold W. Skalka and Cheryl A. Jackson 325 A comparison of the Regan low-contrast letter charts and contrast sensitivity testing in older patients
- Mary C. Williams, Karen LeCluyse and Nancy Bologna 335 Masking by light as a measure of visual integration time in normal and disabled readers
- U. Stabell, B. Stabell, B. Hisdal and K. Nordby 345 Rod and cone dark adaptation
- G. W. Aylward, B. G. Jeffrey and F. A. Billson 353 Normal variation and the effect of age on the parametric analysis of the intensity-response series of the scotopic electroretinogram, including the scotopic threshold response
- Eileen E. Birch, David G. Birch, Benno Petrig and Ricardo Uauy 363 Retinal and cortical function of very low birthweight infants at 36 and 57 weeks postconception
- Jillian Grose and Graham Harding 375 The development of refractive error and pattern visually evoked potentials in pre-term infants
- Nia Roberts and Carol Westall 383 OKN asymmetries in amblyopia—their effect on velocity perception
- Research Reports*
- Edward Hitchcock and Takaomi Taira 391' Phosphenes elicited by intracerebral stimulation in man
- C. Wehrhahn, W. Heide and D. Petersen 401 Long-range colour interactions in human visual cortex
- Jacqueline S. Lustgarten, Marcia S. Marx, Steven M. Podos, Ivan Bodis-Wollner, David Campeas and Janet B. Serle 407 Contrast sensitivity and computerized perimetry in early detection of glaucomatous change
- N. Drasdo, D. A. Thompson and G. B. Arden 415 A comparison of pattern ERG amplitudes and nuclear layer thickness in different zones of the retina

Pierre Lachapelle

- 421 A possible contribution of the optic nerve to the photopic oscillatory potentials

**Shozo Tobimatsu, Kazunori Shidoji,
Katsuya Matsunaga, Shizuka Kurita-Tashima,
Miyuki Hiromatsu and Motohiro Kato**

- 427 Changes in pupillary diameter to checkerboard pattern-reversal stimulation